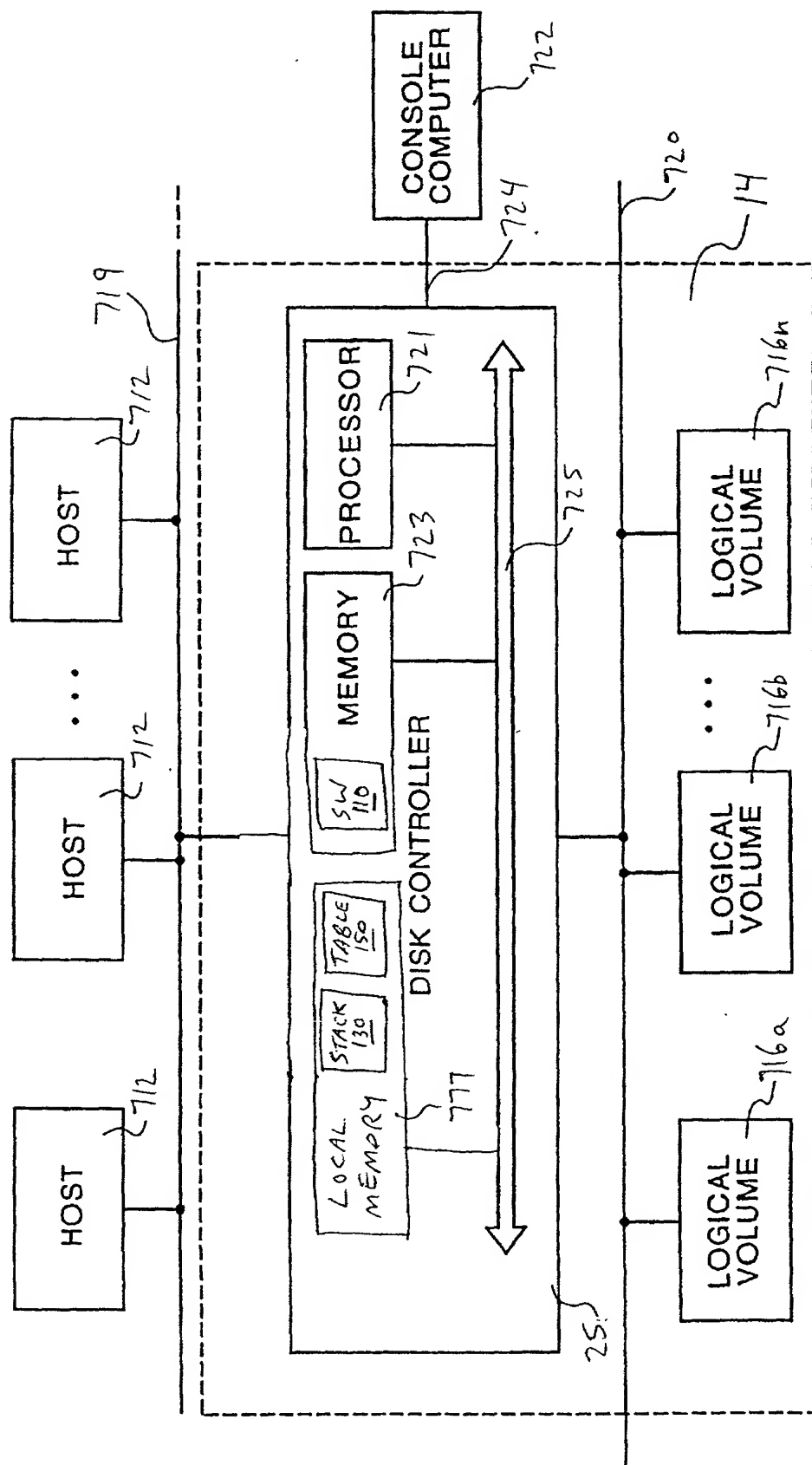


FIG. 1

FIG. 2



```

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```

```

LOCATE_AT (PROFILE_DATA_area)
EXTERN T_SYMPROF_TABLE_ENTRY symprof_stat_table [SYMPROF_MAX_TABLE_ENTRIES];
END_LOCATION

LOCATE_AT (ICLMM_SYM_PROFILER)
EXTERN T_PROFILER_SETUP_RECORD
EXTERN TCO_PROFILER_RUNTIME_INFO
EXTERN ULONG
EXTERN TCO_SYMPROF_STACK_FRAME
END_LOCATION

profilerSetupTable [PROFILER_RANGES_Q];
runtimeInfo;
symprof_stack_index; /* index into the profiler stack frame */
symprof_stack_base [MAX_NUMBER_OF_SYM_PROF_STACK_FRAMES];

```

```

typedef enum
{
    PROFILER_MODE_UNDEFINED = 0,
    PROFILER_MODE_PROFILING = 1,
    PROFILER_MODE_TRACING = 2,
    PROFILER_MODE_ONCE = 3
} T_PROFILER_MODE;

```

FIG. 3

T_SYMPROF_TABLE_ENTRY

310

MSB

LSB

Self Time (64 bits)		314
Total Time (64 bits)		316
Number of calls (64 bits)		318
Function Address (32 bits)	312	Profiler instruction address (32 bits) 320

FIG. 4

410
↙

T_SYMPROF_STACK_FRAME

MSB		LSB	
0x00	Return address	<u>412</u>	Table entry index <u>414</u>
0x08	Entry time <u>416</u>		
0x10	Re-entry time <u>418</u>		
0x18	Self time <u>420</u>		

FIG. 5


```

void profiler_entry (T_SYMPROF_TABLE_ENTRY* self_entry, ULONG* params_p)
{
    UINT64 time_now = getTimeBase(); /* Take a snapshot of the current time */

    /* Stop the profiler if we are over the time limit */
    if (runtimeInfo.timeLimit &&
        ((cu_timer - runtimeInfo.startTime) > runtimeInfo.timeLimit))
    {
        /* Over the time limit - stop the profiler */
        BIT_CLEAR(B_SYMPROF_ON, runtimeInfo.flags);
        runtimeInfo.stopTime = cu_timer;
    }

    /* Start the timer for the function being profiled (self) and reset the
       self total time */

    symprof_stack_base[symprof_stack_index].entry_time = time_now;
    symprof_stack_base[symprof_stack_index].reentry_time = time_now;
    symprof_stack_base[symprof_stack_index].self_time = 0;

    /* Set the index to which this stack frame refers */
    symprof_stack_base[symprof_stack_index].table_entry = (ULONG) self_entry;

    /* Stop the timer of the parent function (parent) */
    if (symprof_stack_index != 0)
    {
        /* We are not at top level of the profiler stack - compute the total
           time spent in the parent since last reentry to the parent */

        symprof_stack_base[symprof_stack_index-1].self_time +=
            time_now - symprof_stack_base[symprof_stack_index-1].reentry_time;
    }

    /* Increment self counter */
    self_entry->calls++;

    /* Push self stack frame on profiler stack, check for overflow */
    if (++symprof_stack_index >= MAX_NUMBER_OF_SYM_PROF_STACK_FRAMES)
    {
        /* Profiler stack overflow: disable profiling */
        BIT_CLEAR(B_SYMPROF_ON, runtimeInfo.flags);
        runtimeInfo.stopTime = cu_timer;
    }

    if (runtimeInfo.mode == PROFILER_MODE_TRACING)
    {
        traceRoutineEntry (self_entry->functionAddr, params_p);
    }
}

```

FIG. 8


```

void profiler_exit (ULONG* params_p)
{
    T_SYMPROF_TABLE_ENTRY* self_entry;
    UINT64 time_now = getTimeBase (); /* Take a snapshot of the current time */

    /* Pop the calling function's stack frame from profiler's stack */
    symprof_stack_index--;

    /* Update the re-entry time of the parent function */
    if (symprof_stack_index != 0)
    {
        /* We are not at top level of the profiler stack - store the reentry
           time of the parent function */
        symprof_stack_base[symprof_stack_index-1].reentry_time = time_now;
    }

    /* Don't update the entry if the profiler is off */
    if (BIT_IS_CLEAR(B_SYMPROF_ON, runtimeInfo.flags))
    {
        return;
    }

    /* Update the current function's profiler table entry */
    self_entry = (T_SYMPROF_TABLE_ENTRY *)
        symprof_stack_base[symprof_stack_index].table_entry;

    self_entry->self_time +=
        TimeBase2Micros(time_now -
            symprof_stack_base[symprof_stack_index].reentry_time +
            symprof_stack_base[symprof_stack_index].self_time);

    self_entry->total_time +=
        TimeBase2Micros(time_now -
            symprof_stack_base[symprof_stack_index].entry_time);

    if (runtimeInfo.mode == PROFILER_MODE_TRACING)
    {
        traceRoutineExit (self_entry->functionAddr, params_p);
    }

    if (runtimeInfo.mode == PROFILER_MODE_ONCE)
    { /* Disable profiling by replacing "bla_mcount" with "br .+8" */
        insertInstruction ((ULONG *)self_entry->profilerInstructionAddr,
            PPC_B_LOCATION_PLUS_8_INSTR);
    }
}

```

FIG. 9

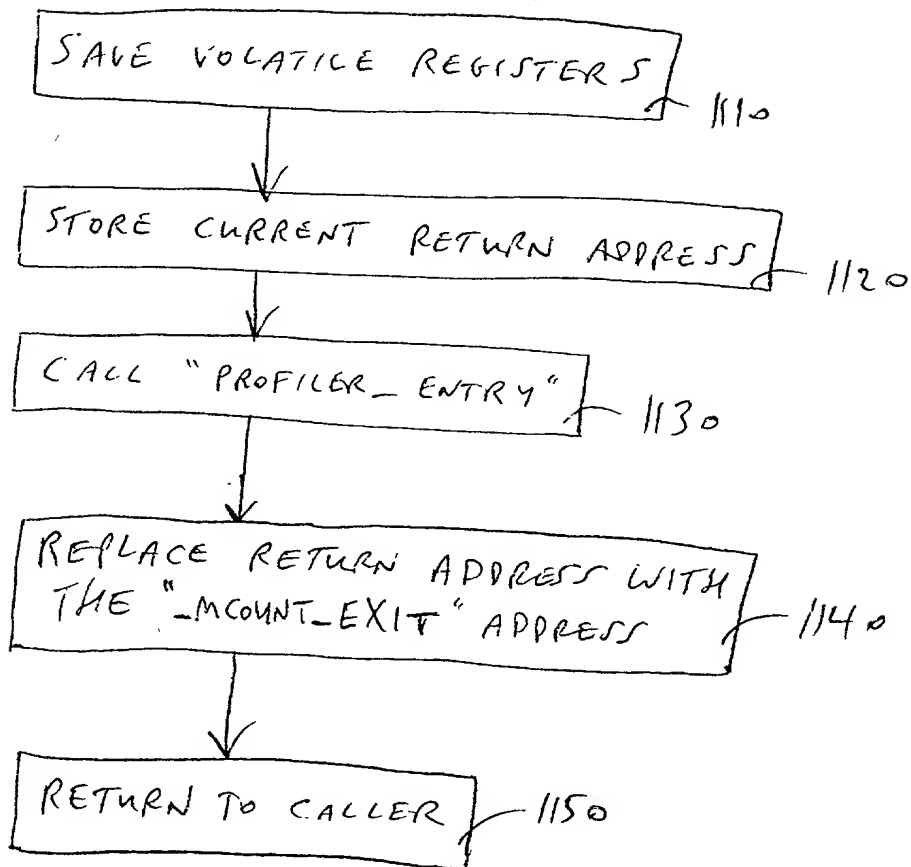


FIG. 11

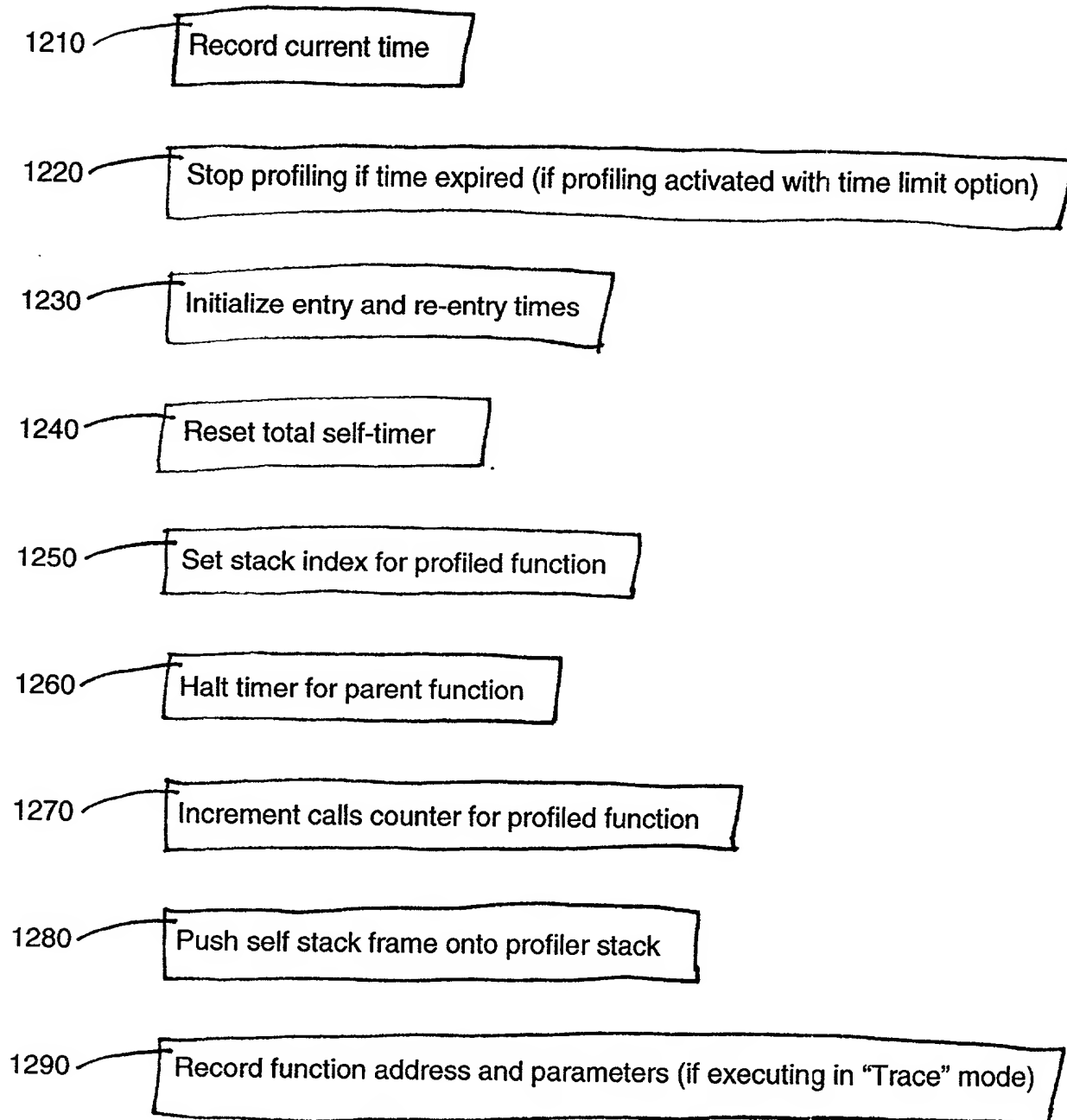


FIG. 12

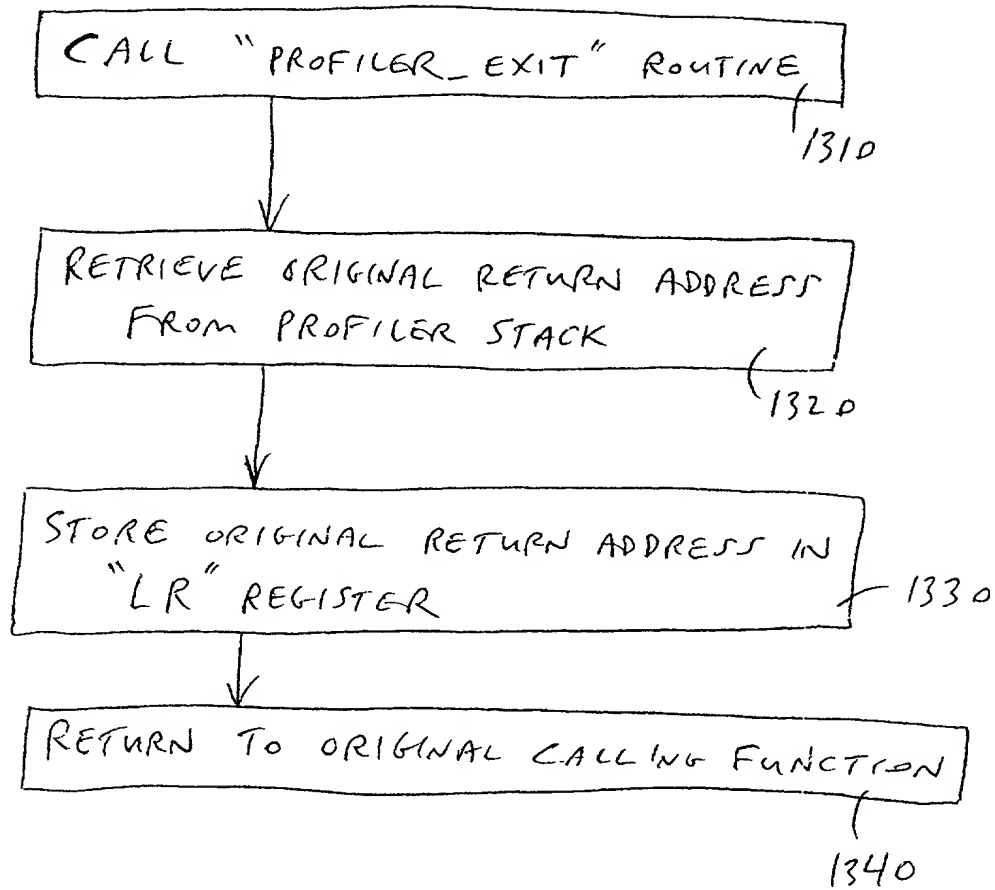


FIG. 13

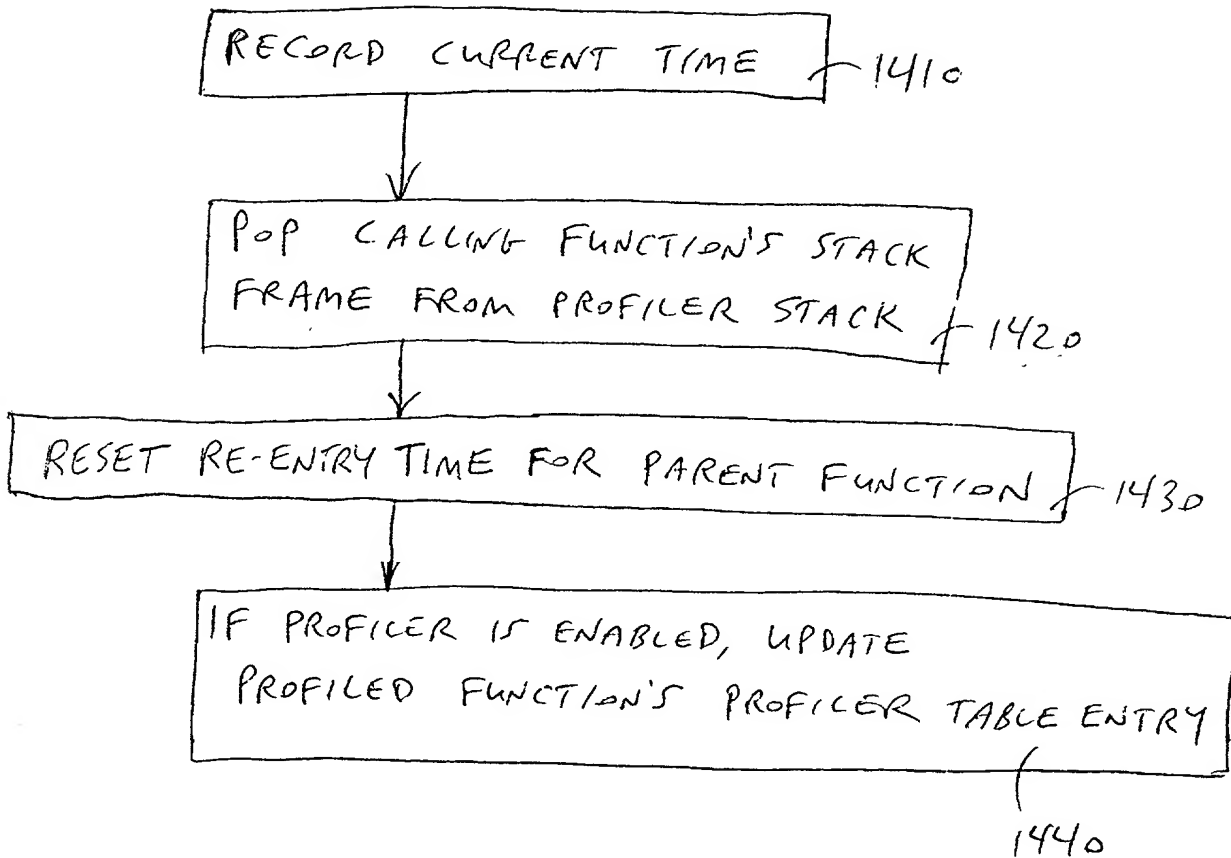


FIG. 14

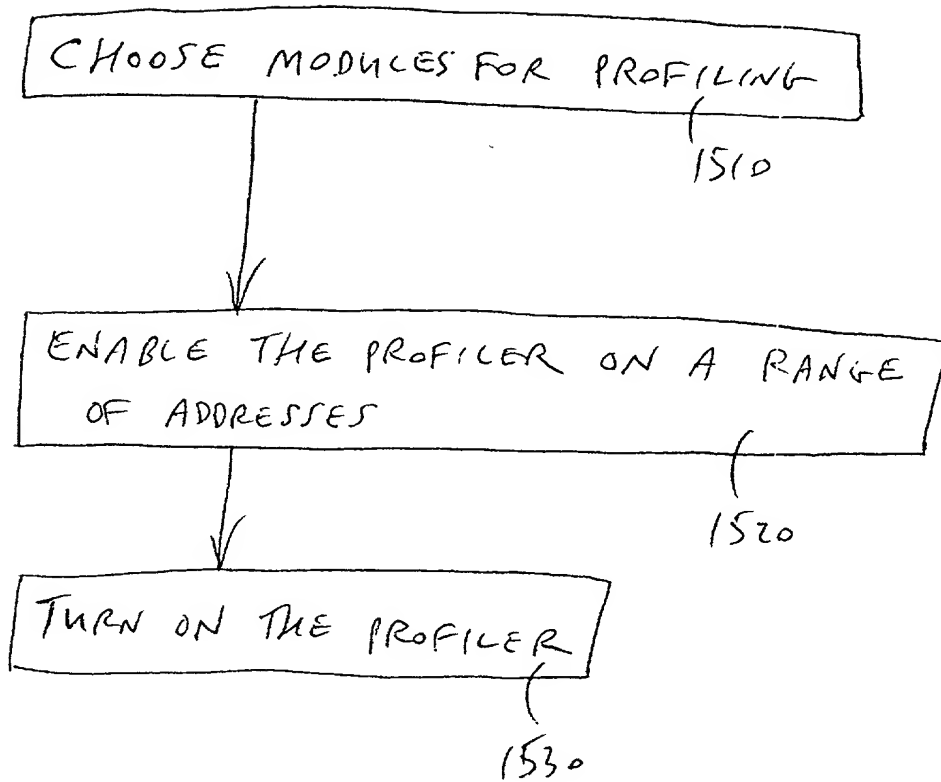


FIG. 15

Utility 83 -- Sym-Profiler : TIME: SEP/30/01 18:13:37

UTILITY 83 -- Sym-Profiler : TIME: SEP/30/01 18:13:37

83, [HELP | AAAA], [STUP | EXEC | DISP] - Display help page
STUP - Setup
EXEC - Runtime control
DISP - Display statistics

P in prompt - Profiler in ON
Event trace message: 0xd3

FIG. 16A

UTILITY 83 -- Sym-Profiler : TIME: SEP/30/01 18:16:4

```

----- Profiler Setup -----
83,DEF,<range number>,<start-addr>,<end-addr>,<flags>
  Add to <flags>: 0x1 - symbolic addr range
                  0x2 - multi-module range, p6 and p7 = name of end module
83,[C | D | E],<ranges bitmap> - Clear, Disable, Enable ranges per bitmap
83,EE
83,DD,<start range>,<flags>
  Add to <flags>: 0x1 - display from NVD
                  - Restore setup from NVD
83,DRAW,<ranges bitmap>,<flags> - Display profiler setup
  Add to <flags>: 0x1 - display from NVD

```

F16.16 B

83,0

UTILITY 83 -- Sym-Profiler : TIME: SEP/30/01 18:19:0

----- Profiler Execution -----
83,CA - Clear profiler statistics
83,1,<mode>,[<time>] - Start profiling (optionally stop after <time> seconds)
 <mode> TRAC - Tracing
 PROF - Profiling
 ONCE - Do once then disable (per function)
83,0 - Stop profiling

FIG. 16C

UTILITY 83 -- Sym-Profiler : TIME: SEP/30/01 18:20:1

```

----- Profiler Display -----
83,A,<skip>,<lines>,<key>,<order> - Display statistics
  <skip> - Number of entries to skip before starting display
  <lines> - Number of lines to display in page (default is 16)

  <key>='CALL' - Rank statistics by number of calls
  'SELF' - Rank statistics by function time alone (no descendant time)
  'TOTL' - Rank statistics by total function time
  'SEAV' - Rank statistics by function time (average)
  'TOAV' - Rank statistics by total function time (average)

  <order>= [ASCE | DESC] - Rank statistics in ascending/descending order
83,AF,0,<function address> - Display statistics for one function
83,AF,1,<module-name>,<module-name>,<offset> specify function as
module+offset
83,AF,1,<module-name>,<module-name>,1 - Display statistics for all functions
in module
83,AA,<ranges bitmap> - Display all functions in range
83,A0,<ranges bitmap> - Display functions in range which were not called
83,A1,<ranges bitmap> - Display functions in range which were called

```

FIG. 16D

Variable	Unit	Factor	Value	Factor	Value	Factor	Value
1. Age	Years	1.0	1.0	1.0	1.0	1.0	1.0
2. Sex	Male	1.0	1.0	1.0	1.0	1.0	1.0
3. Education	Years	1.0	1.0	1.0	1.0	1.0	1.0
4. Income	\$/Year	1.0	1.0	1.0	1.0	1.0	1.0
5. Health	Good	1.0	1.0	1.0	1.0	1.0	1.0
6. Marital Status	Married	1.0	1.0	1.0	1.0	1.0	1.0
7. Religion	Protestant	1.0	1.0	1.0	1.0	1.0	1.0
8. Ethnicity	White	1.0	1.0	1.0	1.0	1.0	1.0
9. Employment	Full-time	1.0	1.0	1.0	1.0	1.0	1.0
10. Home Ownership	Owned	1.0	1.0	1.0	1.0	1.0	1.0
11. Political Affiliation	Democrat	1.0	1.0	1.0	1.0	1.0	1.0
12. Social Desirability	High	1.0	1.0	1.0	1.0	1.0	1.0
13. Life Satisfaction	Very Satisfied	1.0	1.0	1.0	1.0	1.0	1.0
14. Self-rated Health	Excellent	1.0	1.0	1.0	1.0	1.0	1.0
15. Mental Health	Good	1.0	1.0	1.0	1.0	1.0	1.0
16. Physical Health	Good	1.0	1.0	1.0	1.0	1.0	1.0
17. Financial Health	Good	1.0	1.0	1.0	1.0	1.0	1.0
18. Social Health	Good	1.0	1.0	1.0	1.0	1.0	1.0
19. Environmental Health	Good	1.0	1.0	1.0	1.0	1.0	1.0
20. Overall Health	Good	1.0	1.0	1.0	1.0	1.0	1.0

UTILITY 83 -- Sym-Profiler : TIME: OCT/01/01 11:06:59

Profiler is ON, Mode: Profiling, Setup time: OCT/01/01 11:04:02

No.	Range		End	Found		Functions		Statistics table	
	Start					First	Last	First	Last
*01.	unzip_ld+00000	100000	sfs_vnop+133e8	500000	1035	00260a5c	004c5088	008d0000	008d8140

Start time: OCT/01/01 11:06:59; Stop time: -----

```
Start time: OCT/01/01 11:06:59; stop time:
```

Runtime limit: No limit

Fig. 17

Start time: 10:56:01 OCT/01/01 0a587783
Stop Time: 11:01:11 OCT/01/01 0a5879ee
Run Time : 0d 00h 05m 09s

DA- 16a : PS5 IMPL MONITOR > 83,0

UTILITY 83 -- Sym-Profiler : TIME: OCT/01/01 11:01:11

Profiler: OFF

Start time: 10:56:01 OCT/01/01 0a587783
Stop Time: 11:01:11 OCT/01/01 0a5879ee
Run Time : 0d 00h 05m 09s

FIG. 18

upper 8 bits of stack pointer
for 32-bit stack pointer

DA- 16a : PS5 IMPL MONITOR > 83,A

UTILITY 83 -- Sym-Profiler : TIME: OCT/01/01 11:14:37

Profiler: ON, MODE: Profiling

Start time: 11:06:59 OCT/01/01 0a587ca6
Run Time : 0d 00h 07m 38s

Routine Module/Offset	Address	Number of calls	Time (micros)		Average time (micros)		% time	
			Self	Total	Self	Total	Self	Tot.
thermal_+00170	49e22c	1	87911		87911	87911	0	0
thermal_+001a0	49e25c	4	57332		57332	14333	0	0
thermal_+00004	49e0c0	3	483		483	161	0	0
Min stack pointer = 0082fba8 at 0049e0c0, stack available = 0002fba8 bytes								

FIG. 19A

=====

UTILITY 83 -- Sym-Profiler : TIME: OCT/01/01 14:54:30

Profiler: ON, MODE: Profiling

Start time: 14:54:23 OCT/01/01 0a58e73e
Run Time : 0d 00h 00m 07s

Routine Module/Offset Address	Number of calls	Time (micros)		Average time (micros)		% time Self Tot.
		Self	Total	Self	Total	
daschedu+01cc0 3641d0	44501	226182	5145138	5	115	3
daschedu+00ad8 362fe8	32752	98552	3948230	3	120	1
dawrites+00004 267ec0	32752	1593660	3849616	48	117	22
dawrites+016c0 26957c	127683	1400634	2053441	10	16	20
dawrites+012d0 26918c	488521	515448	605265	1	1	7
daschedu+01048 363558	46165	402229	467912	8	10	5
daschedu+01598 363aa8	44501	205113	455331	4	10	2
daschedu+007dc 362cec	11804	19880	447482	1	37	0
daprefch+03788 2641d0	11804	23263	429399	1	36	0
daprefch+01d0c 262754	11804	74382	376237	6	31	1
daprefch+01fa8 2629f0	46916	283656	309941	6	6	4
daschedu+00004 362514	44501	173907	205722	3	4	2
da_utils+02858 2f1468	44339	163917	163917	3	3	2
dawrites+00dd4 268c90	133836	133836	133836	1	1	1
dawrites+00728 2685e4	41789	124541	125498	2	3	1
daschedu+00e04 363314	2521	109413	109413	43	43	1

Min stack pointer = 0082f260 at 0026c4f4, stack available = 0002f260 bytes

DA- 2a : P@sS5 DISK SUBSYSTEM:>

Set-Up-Time: OCT/01/01 14:56:17 Stop-Trigger: FFFFFFFF Phase: COLLECT
Collect-Time: OCT/01/01 14:56:17 GM Reject: 0(0)/0
Util 97 Info - Setup Time: OCT/01/01 13:22:25

DONE.

DA- 2a : P.sS5 DISK SUBSYSTEM:>

FIG. 19B

DA- 1a : .s5 DISK SUBSYSTEM:>
 10/01/01 15:26:48 02b -> PC (Unknown)
 pErrorResp [85.5F16.06] at 10/01/2001 3:26:48 PM
 10/01/01 15:26:48 01a -> PC (Unknown)

DA- 1a : .s5 DISK SUBSYSTEM:>
 10/01/01 15:30:09 Manual Inlines command sent: 83,A
 10/01/01 15:30:09 PC (INLINES) -> 02a,,

Command to dir 02a: [83,A,] msgid=552A05
 10/01/01 15:30:09 02a -> PC (INLINES)

UTILITY 83 -- Sym-Profiler : TIME: OCT/01/01 15:04:23

Profiler: ON, MODE: Profiling

Start time: 14:54:23 OCT/01/01 0a58e73e
 Run Time : 0d 00h 10m 00s

Routine	Module/Offset	Address	Number of calls	Time (micros)		Average time (micros)		% time	
				Self	Total	Self	Total	Self Tot.	
daschedu+01cc0	3641d0		2522952	12991240	329169241	5	130	2	54
daschedu+00ad8	362fe8		2055489	6183238	262200235	3	127	1	43
dawrites+00004	267ec0		2055489	109371204	256003627	53	124	18	42
dawrites+016c0	26957c		6998173	85742065	126349753	12	18	14	21
dawrites+012d0	26918c		31979335	30528363	34969248	0	1	5	5
daschedu+01048	363558		2685627	24248920	28323741	9	10	4	4
daschedu+01598	363aa8		2522952	11494217	26585146	4	10	1	4
da_copyt+02970	37b428		2652	35059	14419079	13	5437	0	2
daschedu+007dc	362cec		387932	702492	13111048	1	33	0	2
daschedu+00004	362514		2522952	10933652	12611157	4	4	1	2
daprefch+03788	2641d0		387932	820965	12478041	2	32	0	2
daprefch+01d0c	262754		387932	2333514	11458184	6	29	0	1
daschedu+00828	362d38		54643	363880	10799259	6	197	0	1
daschedu+00a10	362f20		7919	812005	10421421	102	1316	0	1

FIG. 19D

da_task+00004 373224 | 3503 | 50487 | 9518913 | 14 | 2717 | 0 | 1 |
dawrites+00728 2685e4 | 2723405 | 9344426 | 9422713 | 3 | 3 | 1 | 1 |
Min stack pointer = 00825370 at 002a6450, stack available = 00025370 bytes

DA- 2a : P.sS5 DISK SUBSYSTEM:>
Util_end: 00000000 msgid=552A05
10/01/01 15:31:47 15a -> PC (Unknown)

OCT/01/01 15:06:01 CONTROL STORE TEST...01 add(00080000)PASSED.
10/01/01 15:32:03 16a -> PC (Unknown)

OCT/01/01 15:06:17 CONTROL STORE TEST...01 add(00080000)PASSED.
10/01/01 15:33:55 15b -> PC (Unknown)

OCT/01/01 15:08:09 CONTROL STORE TEST...01 add(00080000)PASSED.
10/01/01 15:34:01 02a -> PC (INLINES)
ptErrorResp [85.5F16.06] at 10/01/2001 3:34:01 PM
10/01/01 15:34:01 01a -> PC (Unknown)

DA- 1a : .sS5 DISK SUBSYSTEM:>
10/01/01 15:34:17 16b -> PC (Unknown)

OCT/01/01 15:08:31 CONTROL STORE TEST...01 add(00080000)PASSED.
10/01/01 15:34:58 Closing Inlines
10/01/01 15:35:03 Opening Inlines, user: , group: PC group
10/01/01 15:35:17 Manual Inlines command sent: 83,AAAA
10/01/01 15:35:17 PC (INLINES) -> 01a,,

Command to dir 01a: [83,AAAA,] msgid=552C05
10/01/01 15:35:17 01a -> PC (INLINES)

UTILITY 83 -- Sym-Profiler : TIME: OCT/01/01 15:09:31

83, [HELP | AAAA], [STUP | EXEC | DISP] - Display help page
STUP - Setup

Fig. 19E

EXEC - Runtime control
DISP - Display statistics

P in prompt - Profiler in ON
Event trace message: 0xd3

DA- 1a : .sS5 DISK SUBSYSTEM:>
Util_end: 00000000 msgid=552C05
10/01/01 15:35:22 Manual Inlines command sent :
10/01/01 15:35:22 PC (INLINES) -> 01b,,

Command to dir 01b: . msgid=552D05
10/01/01 15:35:22 01b -> PC (INLINES)

NON HEX CHAR

DA- 1b : .sS5 DISK SUBSYSTEM:>
10/01/01 15:35:26 Manual Inlines command sent :
10/01/01 15:35:26 PC (INLINES) -> 02a,,

Command to dir 02a: . msgid=552E05
10/01/01 15:35:26 02a -> PC (INLINES)

NON HEX CHAR

DA- 2a : P.sS5 DISK SUBSYSTEM:>
10/01/01 15:35:31 Manual Inlines command sent: 83,A
10/01/01 15:35:31 PC (INLINES) -> 02a,,

Command to dir 02a: [83,A,] msgid=552F05
10/01/01 15:35:32 02a -> PC (INLINES)

UTILITY 83 -- Sym-Profiler : TIME: OCT/01/01 15:09:45

Profiler: ON, MODE: Profiling

Fig. 19F

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

DA- 2a : P.S5 DISK SUBSYSTEM:>

Feb. 1965

Profiler: ON, MODE: Profiling

Start time: 14:54:23 OCT/01/01 0a58e73e
Run Time : 0d 00h 35m 31s

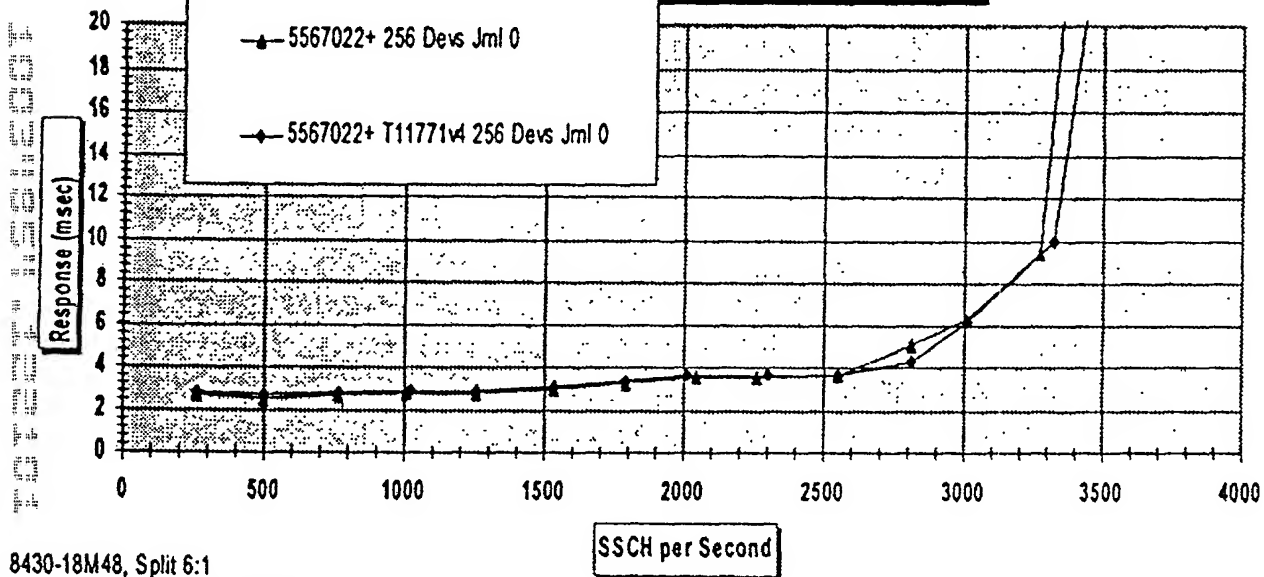
Routine Module/Offset	Address	Number of calls	Time (micros)		Average time (micros)		% time	
			Self	Total	Self	Total	Self	Total
dawrites+00004	267ec0	8159810	379921296	906208848	46	111	17	42
dawrites+016c0	26957c	23194433	311286293	454524217	13	19	14	21
dawrites+012d0	26918c	113817075	107355424	123512544	0	1	5	5
daschedu+01048	363558	10837699	97770758	114282199	9	10	4	5
daschedu+01cc0	3641d0	9992748	51666137	1170386199	5	117	2	54
daschedu+01598	363aa8	9992748	46125615	103420081	4	10	2	4
daschedu+00004	362514	9992748	41495305	47383227	4	4	1	2
da_utils+02858	2f1468	9958730	37412992	37412992	3	3	1	1
dawrites+00728	2685e4	10299487	33491913	33763773	3	3	1	1
daschedu+00e04	363314	655745	28488210	28488210	43	43	1	1
daprefch+01fa8	2629f0	4101228	24844129	27249016	6	6	1	1
daschedu+00ad8	362fe8	8159810	24544745	930763270	3	114	1	43
da_copyt+00100	378bb8	10118	23769100	25413369	2349	2511	1	1
dawrites+00dd4	268c90	23484807	23485140	23485140	1	1	1	1
idle_stt+00080	394434	10995564	21948672	21948672	1	1	1	1
cache_rt+03f04	26e8e4	2313095	19836710	23451890	8	10	0	1

Min stack pointer = 00823048 at 0049f394, stack available = 00023048 bytes

F16, 20

Front End Write Test

4K Blocks, 100% Write, 100% Write hit, 1 cyl



8430-18M48, Split 6:1

96 Physical, 256 Logical 3390-3

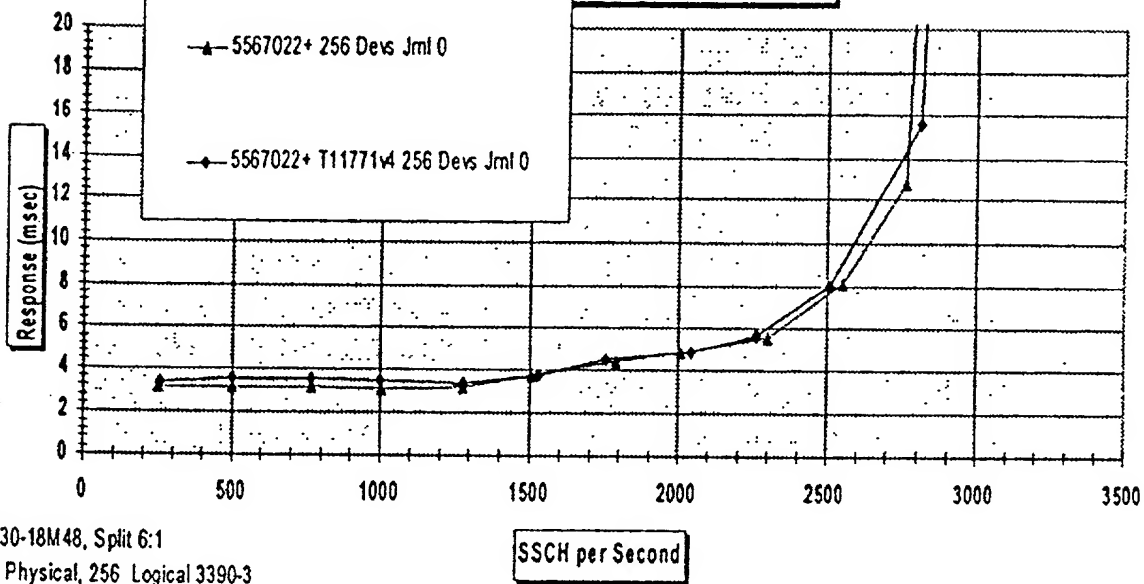
8GB Cache

8 Host Channels

FIG. 21

Back End Write Test

4K Blocks, 100% Write, 30% Write hit

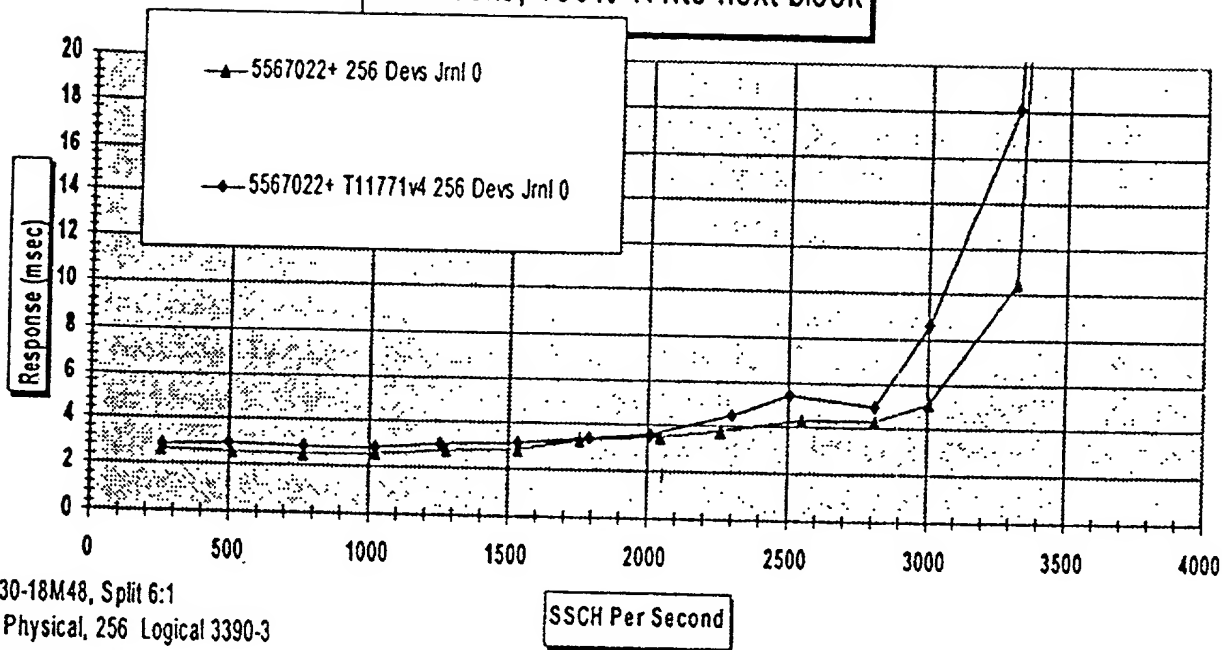


8430-18M48, Split 6:1
96 Physical, 256 Logical 3390-3
8GB Cache
8 Host Channels

FIG. 22

Sequential Write

4K Blocks, 100% Write next block



8430-18M48, Split 6:1
96 Physical, 256 Logical 3390-3
8GB Cache
8 Host Channels

FIG-23.

4K Mixed Environment Uniform Distribution of I/Os 4K Blocks, 25% Write, 70% Cache hit

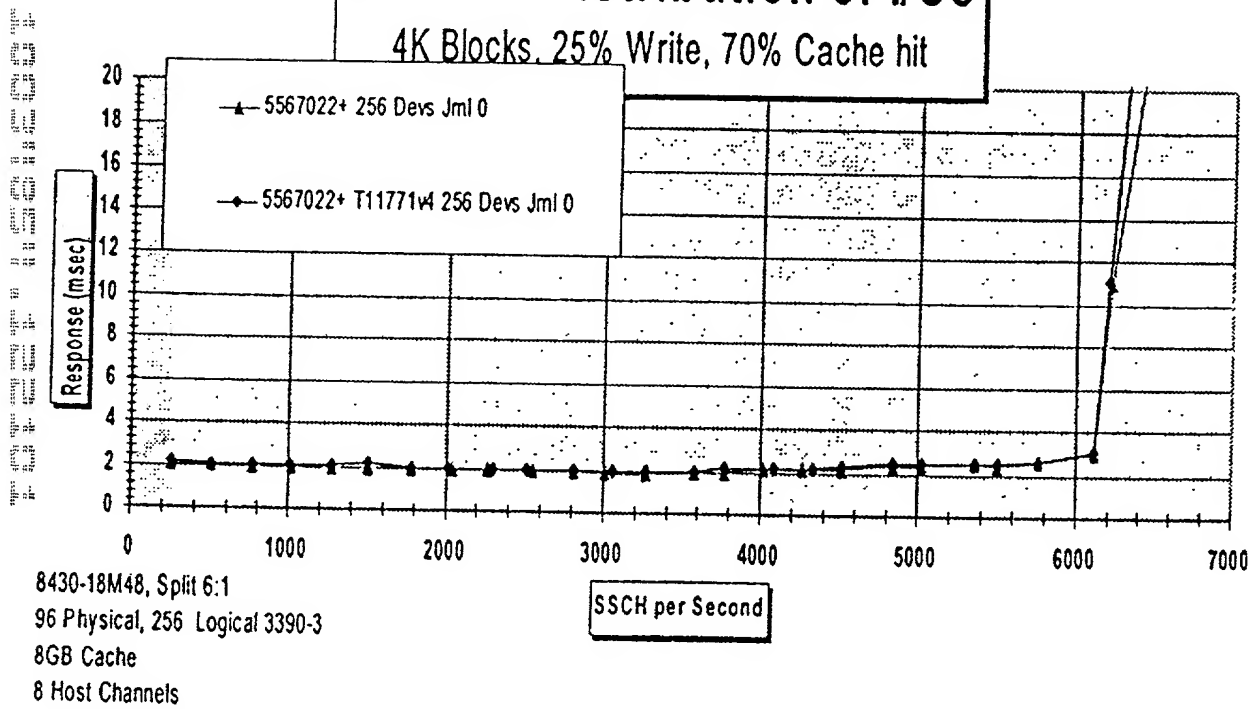
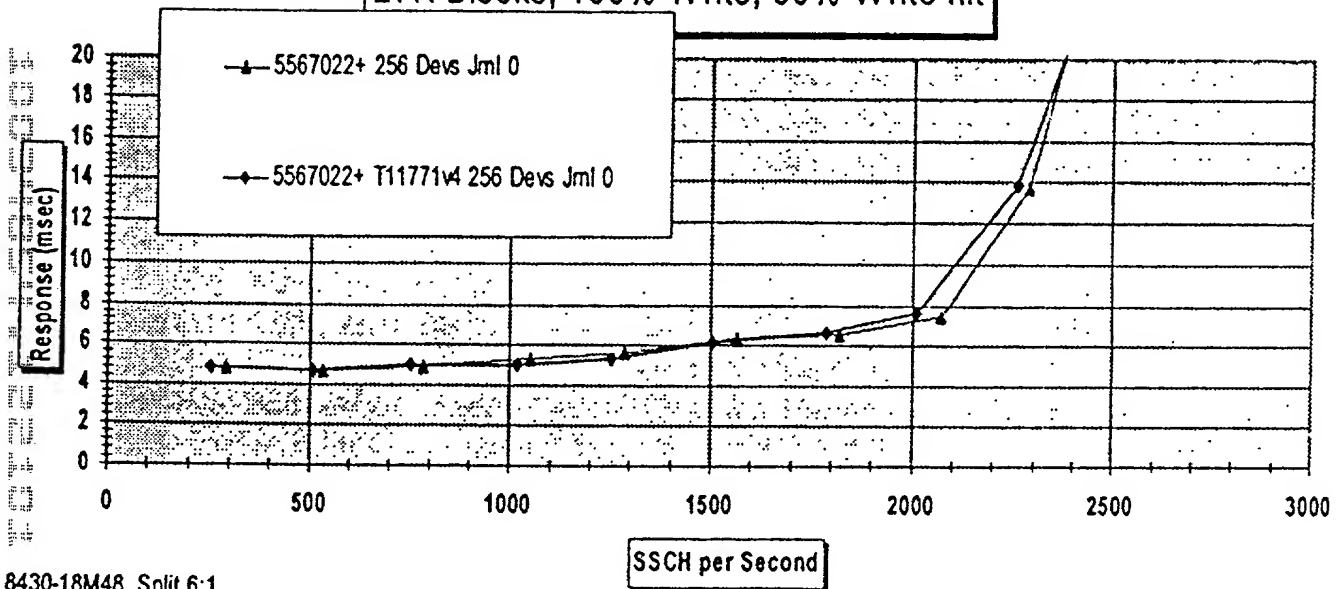


FIG-24

Back End Write Test

27K Blocks, 100% Write, 30% Write hit



8430-18M48, Split 6:1

96 Physical, 256 Logical 3390-3

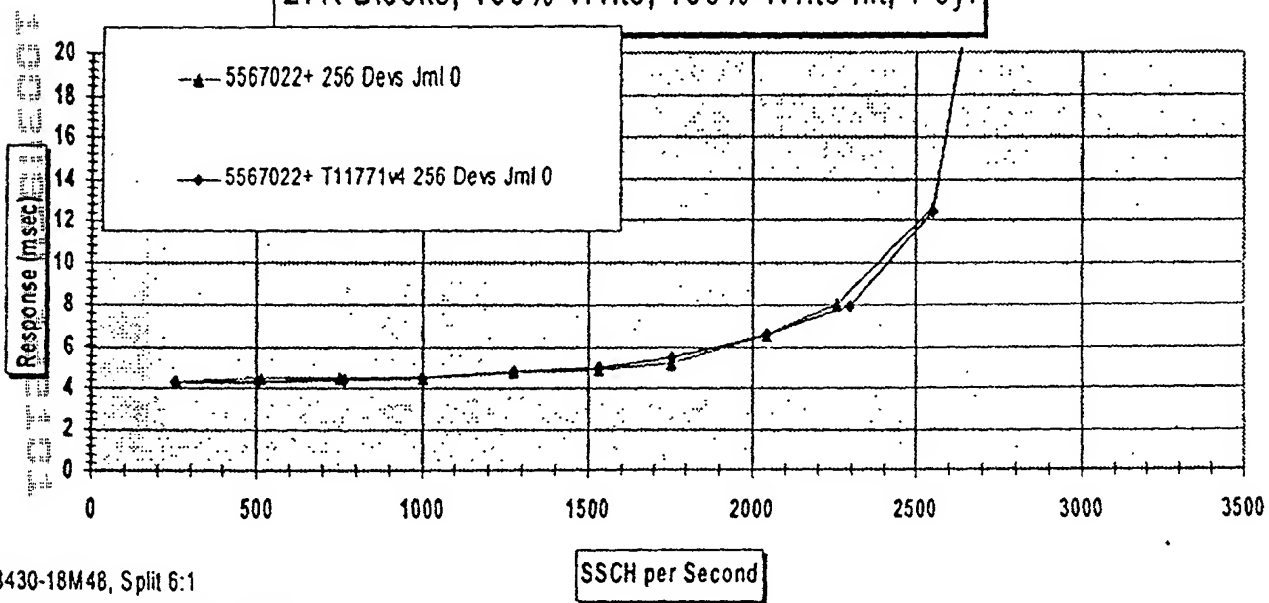
8GB Cache

8 Host Channels

FIG. 25

Front End Write Test

27K Blocks, 100% Write, 100% Write hit, 1 cyl

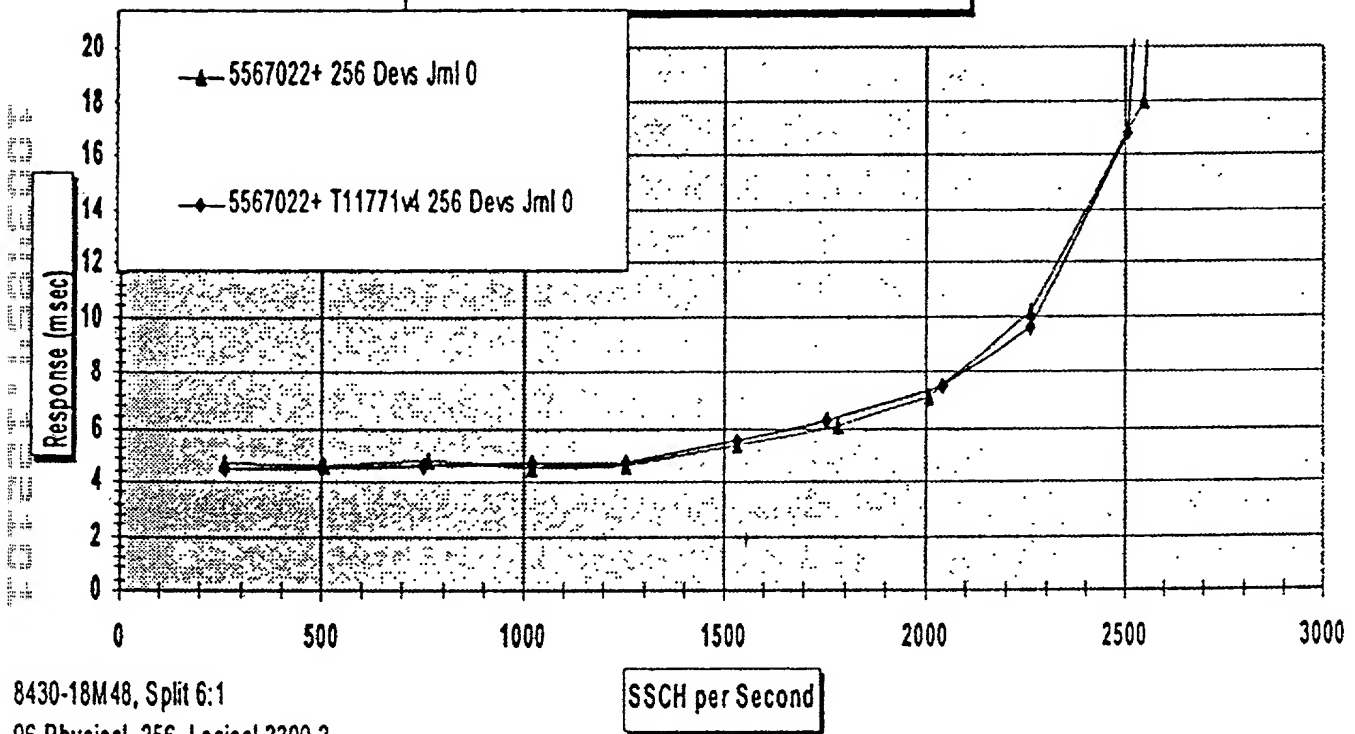


8430-18M48, Split 6:1
96 Physical, 256 Logical 3390-3
8GB Cache
8 Host Channels

FIG. 26

Sequential Write

27K Blocks, 100% Write next block



8430-18M48, Split 6:1

96 Physical, 256 Logical 3390-3

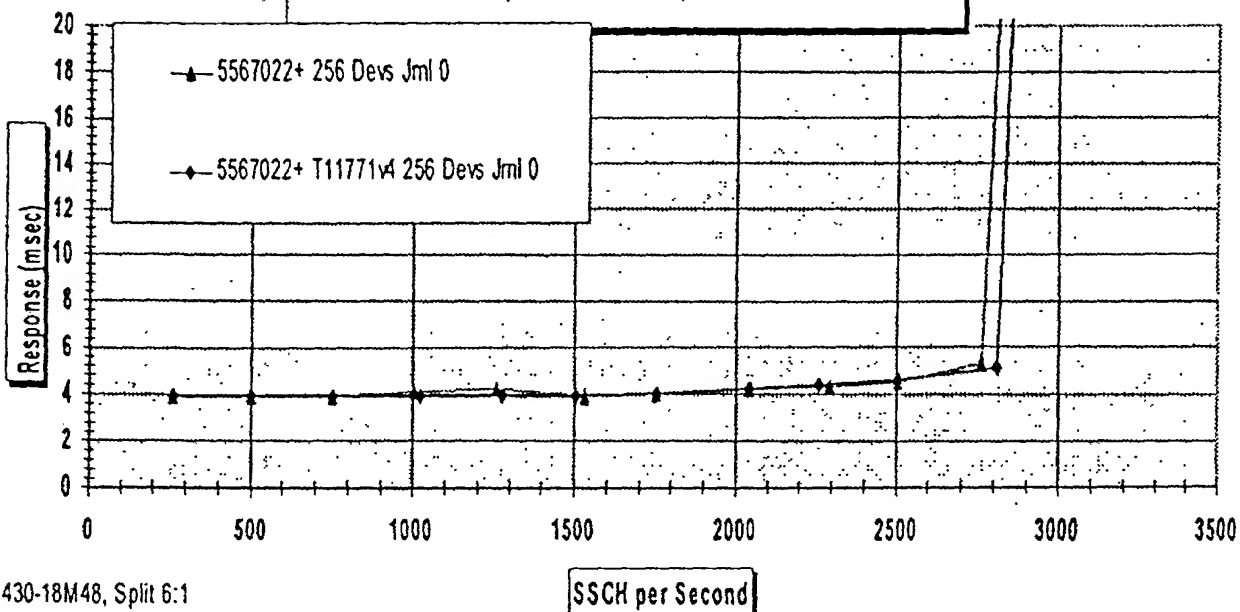
8GB Cache

8 Host Channels

FIG. 27

Typical Online Environment Uniform Distribution of I/Os

27K Blocks, 25% Write, 70% Cache Hit



8430-18M48, Split 6:1
96 Physical, 256 Logical 3390-3
8GB Cache
8 Host Channels

FIG. 28